New Things Not Found in Any Book

How MOTION **PICTURES Make** You See Better

By Leonard Keene Hirshberg. A.B., M.D., M.A. (Johns Hopkins).

E VERYBODY goes to the "movies." Not only are moving picture theatres cheap, but the performances are as good if not better than you see in the twodollar houses. You have the pleasure, the music, the comfort, the entertainment and the instruction in a moving picture theatre to a greater certainty than in many so-called "legitimate Houses," and at far less ex-

The other day I saw James K. Hackett and a Frohman company in a four-reel photo-play for five cents. You may see "Les Miserables," "Hamlet," and a thousand other instructive plays intermingled with zoology, trips to foreign lands, humor and the like, in a motion picture playhouse. These motion picture plays are better acted and in every way more satisfying than a great many theatrical productions for which you would have to pay one or two dollars a seat.

What harm is there, then, in visiting the "movies"? Are the eyes injured? Is the health of the patrons destroyed? Are the morals of the young corrupted by

The answer to all of these queries is an emphatic No! Just as the old-age playhouse gradually eliminated all taint of vice from its performances; just as the editors of magazines have come to understand that the reading public does not relish even a smail dose of the wicked, so photo-play producers have learned that their public have none of the suggestive, the vicious, or the

Militant prudes and belligerent moralists who read vice into teadrinking, and whose voices are for war against any pleasures whatsoever; who spit forth their crusading indignation against moderate tobacco smoking, Sunday walks, the stately minuet and the graceful Boston waltz, have already recognized the trend to censor or censure it.

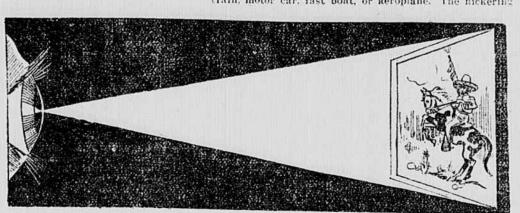
But certain amateur physiologists and opticians continue to attack this form of entertainment and instruction. In their ignorance they declare that defective vision, styes, granulated eyelids, eyestrain, pinkeye, inflamed lids, crossed eyes and other troubles may each and all develop from attendance at the moving pic-

Dr. Herbert Harlan, Surgeon-General of Maryland, perhaps the best ophthalmologist in the South, and the envoy sent by the Government to study the dreadful eye malady tracoma in the wilds of West Virginia, says these charges are all nonsense. Dr. Harlan, with whom I feel upon this matter in hearty comcord, asserts that the hour or so spent each day in watching the moving picture shows can result in no harm to the eyes.

In fact, I go even farther and assert that two hours a day in the dark auditorium of a picture playhouse, watching the moving films, is actually a valuable tonic to tired eves

Experiments by Professor Knight Dunlap in the psychological laboratories of Johns Hopkins University nave shown that even the slight flicker which occasionally alppears on motion pictures tones up the eyesight and makes it more acute.

It is unwise, perhaps, for some persons to sew, read or attempt to use their eyes at close range on a moving train, motor car, fast bont, or aeroplane. The flickering



"At the distance from the motion picture screen at which the spectator usually sits the eye's focus changes but little, no matter how much flicker there is to the pictures."

Science Discovers That PHOTOPLAYS Are a VALUABLE TONIC for TIRED EYES and Make Their SIGHT MORE ACUTE

lights and shadows from this vibration are liable to do chairman of the scientific research committee of a na-

This is not the ease with moving pictures. At the 'movies" the spectator sits from twelve to several hundred feet away from the screen upon which the motion photographs are thrown.

At that distance the focus of the eye changes but little, no matter how much flicker there may be. In fact, a little flicker is beneficial, because it keeps the eye muscles from becoming sluggish, worn out and unadaptable to change.

One scholar maintains that the Germans have become better observers than other nations, and were even ahead of Americans until a short time ago, because the motion picture theatres swarmed in all the Teutonic cities five or six years before they spread over the

Undoubtedly children, and adults as well, have become more observant and better educated in many respects since motion pictures have acquired such a vogue. Recent psychological tests made upon children immediately after leaving a moving picture exhibition prove that they distinguish colors more acutely, recognize form and shape more sharply, and remember figures. sizes and other visual differences better than they did before they went in to see the pictures. in all the tests children who had not visited the "movies," but who were, nevertheless, subjected to the same kind of excitement by witnessing a meiodrama per-formed by actual flesh and blood actors.

Instances of weak eyes, astigmatism, near-sightedness, granulated eyellds and other troubles of the optical apparatus, commonly attributed by careless observers motion photographs, are found upon fair and thorough investigation to be due to entirely different causes.

Twitching of the eyelids is erroneously blamed upon visits to the "movies." I was recently required, as the

harm to your retina. Why? Because the peephole, tional organization, to investigate and run down the muscles and lens of your eyes must be constantly change cause of this trouble. In a large American city, where there are several hundred moving picture theatres and half as many eye specialists, it was soon made clear that not one true example of eye-twitching could be blamed upon motion pictures.

Many of these cases were due only to the need of eveglasses. Others were a result of nervous defects with which the twitching was asociated.

Painful eyes, swollen eyes, reddened eyeballs, watery eyes and siyes are aften nature's roadside signposts which indicate that the eye specialist should be called in to make visual tests. Speciacles and eye-glasses will frequently be found to correct the iritations.

One man, who prefers the "movies" to grand opera, came to me and asked if "dark spots, which are always dancing before the eyes," were not due to his fondness for the photo-plays. He was given to understand that such spots are a sign of many different internal disor-ders—blood deficiencies, excessive pumping by the heart, disturbances of the brain and spinal marrow, and the

accumulation of microbic poisons in the lymph stream.

There is, then, no danger to the eyes from frequenting moving picture theatres other than is liable to be encountered in any theatre, railroad train, church, park or other public gathering place. Contagions are, course, picked up by the eyes at moving picture per-formances, as well as in school or church. But these are by no means common and, with the protective regulations now enforced by the building inspectors in most cities, the ventilation arangements and hygiene of the picture playhouses are becoming superior to those of

schools, churches and other public gathering places.
Finally, it may be said that if the motion picture habit has done nothing else than remind people of their eye troubles and send them post-haste to an oculist, it has accomplished an incalculable amount of good for the

Is It Really a MISFORTUNE TO HAVE BLUE

WO English physicians have recently been trying to ascertain what relation, if any, exists between disease and the color of the eyes. They were led more by accident than design to the observation that many persons, particularly children, ill with scarletina, diphtheria, septic sore throat, tuberculosis and pernicious anaemia, suffer more and succumb more easily to the ravages of these diseases if their eyes are light blue or gray than if their eyes are black or brown.

Statistics collected at several English hospitals and published by these physicians in a re-cent issue of the Lancet show that whereas children with scarletina who are dark-eyed rarely die or suffer serious complications, nearly ten per cent of those with light-colored eyes dle of this dread ailment.

They found even a worse state of affairs in the case of diphtheria. Fully fourteen per cent of children with light blue, hazel and light gray eyes went to an untimely death from diphtheria despite the correct use of the best treatment.

By William Brady, M. D.

is born with a set of sound teeth in his mouth, though he doesn't cut them till grand-

ma gets round to it. If, in spite of decadent

civilization, the haby can keep his milk teeth

sound he'll never wear a crown when he

grows up and becomes a man. If the tem-

porary teeth are kept intact by good common

sense oral hygiene, there will be no necessity

of keeping the permanent set in a glass of

water beside the seidlitz powders every night. Something like 98 per cent of the enamel

of teeth is lime phosphate. Lime and phosphorus are vital elements of blood, muscle,

nerve, bone and teeth. Cereals supply these mineral foods in the most assimilable form.

There is more than mere commercialism in

the back of your magazine; un-denaturized

cereals with nature's chemistry included in

the carton constitute the ideal food for little

baby's bottle because we want to build a

good, substantial baby.

We add cereal decoctions to the

the pictures the cereal manufacturers print on

SOUND tooth is better than a gold

erown. It is cheaper, lasts longer and

needs less care. Every normal baby

On the other hand, less than two per cent of the black and brown eyed patients succumbed to

the disease.
Septic sore throat, tuberculosis, tonsilitis, acute rheumatic fever and many other diseases all proved more dangerous to patients whose irises are light colored.

In what colors are you most interested? Why do children and savages like to play with colored objects?

These questions come home to everybody and closely associated with our mental growth, health, temperament and education.

C. Reavis, a St. Louis educator, recently undertook a research upon the effects of red, green, blue, yellow, pink, orange and other hues many individuals, particularly school hildren.

One of the tests he arranged to discover whether or no colors give delightful sensations was to prepare colored squares of paper of the different shades of the spectrum. These were given to the subjects to mount according to their preference.

teeth. It strengthens the teeth and hardens

the gums. Children certainly should be al-

lowed to exercise their jaws, too. The more

exercise the jaws are given, the less brush-

ing will the teeth require. Herbivorous ani-

mals brush their teeth more thoroughly and

more regularly than any of us carnivorous

animals do, and that's why we have so many

dentists. We simply substitute bristles, burrs and sundry chisels for fresh green garden

erave your pardon, but sugar cannot make "worms." It makes rugged, lively children.

They naturally crave a generous amount of

sugar and should have it. Only give them the most nutritious kind—the kind you used

to give us when we were little tots-rich, full-

flavored, unbleached brown sugar-and spread it on about a quarter of an inch thick, that

The particular reason for preferring brown sugar to the ordinary anaemic kind is that

brown sugar contains something like 200

times more mineral food than white sugar

does. And mineral food is so essential to the

is to say, half of the thickness of the butter.

And then there's sugar. No. grandma, we

Young children in the first grammar grades and below preferred red to the other colors, with blue as a second choice. Older youths inclined to prefer blue to red.

Then the experimenter gave the children outlines of birds and told them to fill them in with

whatever they pleased.
In every drawing made by children of the tourth and fifth grades the heads of the wood-peckers were colored red and those of the blue jays blue. On the other hand, still younger children selected bright red oftener than any-

thing else for both birds. There was a marked decrease in the use of blue by both the very old and the very young. The older ones left blue out almost entirely, just as the youngest children did, and used red lavishly

Mr. Reavis draws from his investigation the conclusion that children are most interested by the bright colors such as red and blue. The majority of persons are, he believes, more interested in the sensations derived from color than in any thing associated with the colors

Owing, I think, to the refined white substi- oral hygiene.

mineral starvation (or feeding animals with

ordinary foods from which the mineral mat-

tute we use in place of the "staff of life,"

from one to all four of our third molars, or

"wisdom teeth," never erupt. They do raise

Cain with our jaws, though, under the inter-

esting name of "impacted molars"-as the

erate facial neuralgia teaches. Dr. Talbot, a Chicago stomatologist, has found by extended

series of examinations that one or more third

adults at twenty-five. Give us this day unde-

It does "pay" to have the temporary teeth

filled or treated by the dentist, just as it

Why It's SO

molars are missing from 47 per cent

examination of many cases of invet-

than complete starvation.

naturized bread!

ter has been removed) is more quickly fatal

life and well-being of every mammal that pays to keep children away from a case of

Just How a FISH GETS AHEAD

low itself to be shoved out of the way in front and then flow in behind the fish as he moves along? If it does, where does it go to in the meantime? The fish certainly cannot lift the whole ocean above his head, and water itself is practically incompressible. Certainly a fish cannot compress it any with a mere flap of its tail.

All we have to go on is the actual fact that the fish "does move." There is water all around him, above and below him, there being not the tiniest bit of space there for him to project himself in. At every point he is met by a solid head of water. Now, of course, we move about in the air, but then we do not swim in it, and then air is compressible. Also,

scarlet fever or measles. Every case of a

so-called "children's disease" is a reflection

on our sanitary intelligence. And every

cavity in a milk tooth cries shame upon our

Give me a thousand children with sound

teeth to care for and limit my practise to

the "diseases of childhood." and I can go

away on a long fishing trip without ever be-

ing missed by my patients. When I find a

family with bad teeth I endeavor to treat them with a great deal of respect, for their

when a doctor wants to see a sound set of

temporary teeth he has to hold up some child

who isn't a patient at all. Every family doc

for should perpetrate this cowardly deed

once in a while in order to recognize the oral

patronage is sure to be worth while.

pathology he so commonly overlooks.

him opens before the water behind remained stationary. But the pres flows in or whether the two actions sure of the current causes the body take place simultaneously. As far as to move forward. place simultaneously. As far as to place is a very queer proposition

tarily on the water with his tall and

how does he manage to move is easy enough to see that the fish must open first or the fish certainly ahead? Does the water al- can move because the pressure be- could not move. The pressure there hind him is just as much as that be- causes the water behind to fill up fore, and so any little added pressure and pressure is carried in a wave that he may give will be sufficient which must have a certain velocity to move himself forward. Also, we in a fluid other than a perfect oneknow that he can get a grip momen- and water is not a perfect fluid.

The solution to the whole question fins by a quick motion on account of is, of course, the motion of the tail the inertia of the water.

Its flap causes a current of water to sweep down by the fish from head decide is whether the water ahead of to tail-or would cause it if the fish appearances go, they seem to take at it, the way a fish gets from place

YOU MIGHT TRY....

When You Serve Fruit.

EMON juice sprinkled over fruit sliced for dessert or used in a salad will prevent its turning dark,

For Unpleasant Odors.

BURNT coffee will free the house from cooking odors. So will a smouldering piece of string. A handful of lavender flowers in a bowl with lemon or orange peel and covered with bolling water imparts a gentle fra grance to an entire apartment.

To Clean Furniture.

I F your white enamel furniture becomes solled or discolored it may be quickly and satisfactorily becomes quickly and satisfactorily cleaned and restored thus: Melt one tablepoonful of bicarbonate of soda in one quart of boiling water; when wash the furniture with the solution, using an old flannel cloth for the

Repairing Chair Seats.

WHEN reed or cane chair seats sag wash them on both sides with warm soapsuds. Make the under side quite wet; dry in the air and

For Rust Stains.

T EMON juice and salt will remove rust steins if rubbed on them

before putting in water

Try SALT to Relieve CATARRH

KEEP YOUR TEETH SOUND and

OZENS of remedies are said to be cures for catarrh, and many do excellent work in that disease, but every household contains the best known remedy, and it is actually so simple that most persons disregard its merits.

Dissolve a pinch of ordinary table salt in one-fourth of a pint of warm water, and pour a little in the palm of the hand and place the nostrils in it and snuff it up the nose, taking care that some reaches the tissues of the tubes reaching to the mouth.

Repeat several times, and then wait for

Strong salt water will cause pain in the head, but weak, warm salt water is perfectly harmless and will cleanse the tissues more effectually than any other remedy.

and will clear up the throat. A little stronger salt water used as a gargle will relieve sore throat and aid in preventing

ten or twelve hours and repeat the treatment. Keep this up for a week or two, and catarrh will disappear.

This treatment is a great breath purifier

AKE a sofa pillow in one hand, balance it carefully until you think you have a right sense of its weight. Hold a large glass in the other hand and have some one pour water into it until you think it weighs about as much as the pillow. Then weigh the two and see how far out of the way you are.

Or take a cap in one hand, and put in the other as many coins as you think may be needed to balance it. You will find your judgment far from correct.

Take two stone jars. Fill one with hot water and the other with cold and ask a friend to say which is the heavier of the two. The bottle with hot water will seem twenty-five per cent heavier.

Take three articles weighing the same. Put one on the ground, one on a table and one on a high shelf. Ask a friend to lift them and determine which of the three is the heaviest. He will pick the one on the shelf as the one which weighs the most every time.

The laws of illusion in weight are quite exact, and it is marvellous to see what a large proportion of people will make exactly the same mistake in exactly the same way. Thus the pillow seems lighter than it is because its appearance suggests lightness. Of two similar weights the one that is the larger in size will always seem the lighter. That is why the weight of the cap will be underestimated in the experiment just described.

Any change from normal temperature, either hot or cold, will appear to increase the temperature. A piece of ice the same weight as a glass of water will seem to

The extra exertion needed to sustain the weight of an object either above or below our natural reach, seems to make it heavier, and for this reason the weight on the shelf will seem to have the advantage.

Does this show what poor judges we are? Not at ail, it only proves our good judgment. It is like the ead case of the college student in a class on optics, who could see through the illusions, so that matters which appeared crooked to the rest of the class, although they were ready straight, appeared straight to him. Instead of complimenting him on his discernment, the professor promptly expelled the student from the class on the ground that ne was drunk. And he was!

Why It's DANGEROUS TO COUGH WHEN IN LOVE

F course, it's just as well not to cough at any time, but while your heart is appreciably enlarged by the tender passion of love it is a great mistake to put upon that organ any further strain. Dr. Guthrie, of Tulane University, has been experimenting on the effect coughing produces, and he announces that in a very large number of persons a cough has such a serious effect upon the heart that it makes the organ change its shape. In people with good hearts the proper shape comes back in from five to ten seconds, but where the heart muscle is weak, as much as fifteen minutes elapses be-

fore the effect of the cough has passed away.

Unfortunately, Dr. Guthrie omitted to determine from his patients whether they were deeply in love-just comfortably so, or not in love at all. This leaves the question as to the shape a Cupidskewered heart would take as yet unsettled, but there seems no reason to doubt the gravity of a cough upon an aiready overstrained organ. Blowing a horn or cornet is just as bad as coughing, and it is urged in consequence that only married men be admitted into brass bands.

A yawn, on the other hand, is beneficial. As yawns are above all things infectious, the lover

who has stayed too long hereafter may comfort himself with the thought that his lady-love is thinking more about his health than her sleep when she yawns. It won't be true, of course, but that is no reason why a grain of comfort should be withheld from the poor fellow who is going through the palpitation process.

In these eugenic days it would not be sur-prising if the up-to-date girl provided herself with a small fluoroscope. With this she could carefully study each suitor's heart muscle to make sure whether he is in carnest or not. Finally, as a supreme test, she will make him cough, and by that cough she will decide his future fate.

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CHENCE is always after rats on furnace to a tank of water, where After the gas has had time to kill

turn the invisible gas poison into any place where the pests are In time this new method promises to do away with the torture to using this fumigator aboard ships of rats by the bone-breaking jaws of dogs, the tearing teeth of spring traps or the lingering pains of rats-

M. E. Berkowitz, a chemist, is the originator of this more merciful tions of the ship be thoroughly method of combatting these enemies searched for human beings before of mankind. In the case of rats on fumigation begins. Another precauboard a ship, common coke is spread ten or twelve inches deep over the badly smelling gases with the coke A pipe from the smokestack leads the gas formed in the may have been overlooked.

account of the deadly diseases the vapor is washed of soot and all the rats, fresh air is admitted. they spread. The latest meth- other impurities, and is cooled be- and a lighted lantern is put into the od of exterminating the pests is to sides. A blower is used to force the apartment to see if the gas has been kill them by the bushel with com- gas from the smokestack on through replaced by atmospheric air. When the water and into the fire hose the lantern burns brightly the place All that is necessary to do is to through to which it is carried to is safe for men to enter.

It seems that the only drawback that men may be asleep in the banks or overlooked in the stokehold or engine room when the gas rats by fine gas in about three is turned on. Berkowitz points out hours, while an unloaded vessel rethis danger and warns that all section that may be taken is to mix gas, so as to rout out any men who

every nook and corner of the vessel. Animal experimentation comes in handy as a test for gas. Live rate in cages are lowered into the fumigated apartment, and if they are not affected by the gas the place is safe.
A loaded ship may be cleared or all

quires only about half that time.

Mr. Berkowitz says that all rate

searched for human beings before killed by the gas should be burned, for disease germs may live and thrive in the dead bodies. It is therefore not safe to throw them into the sea, lest they float to and and spread pestilence.